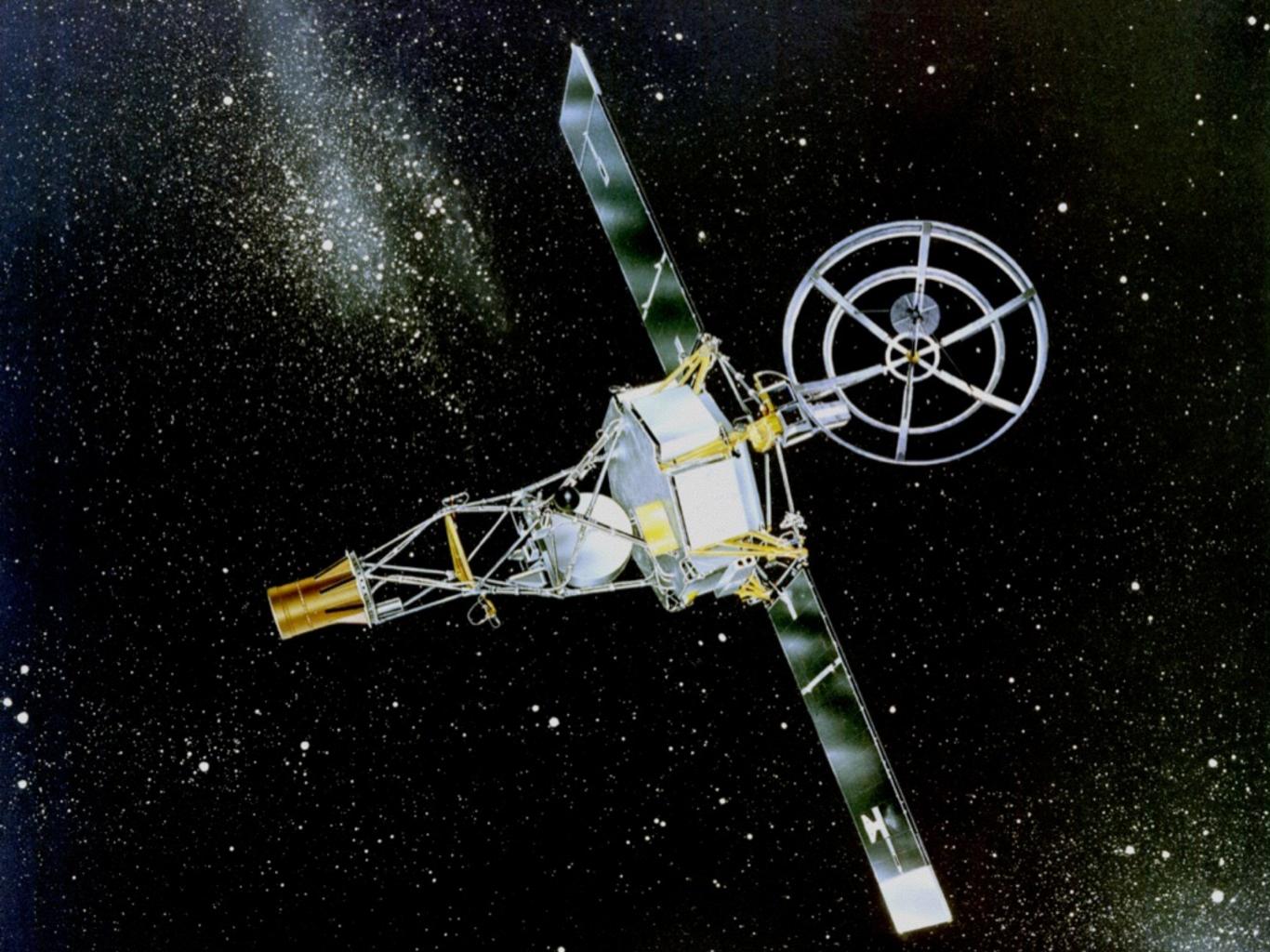
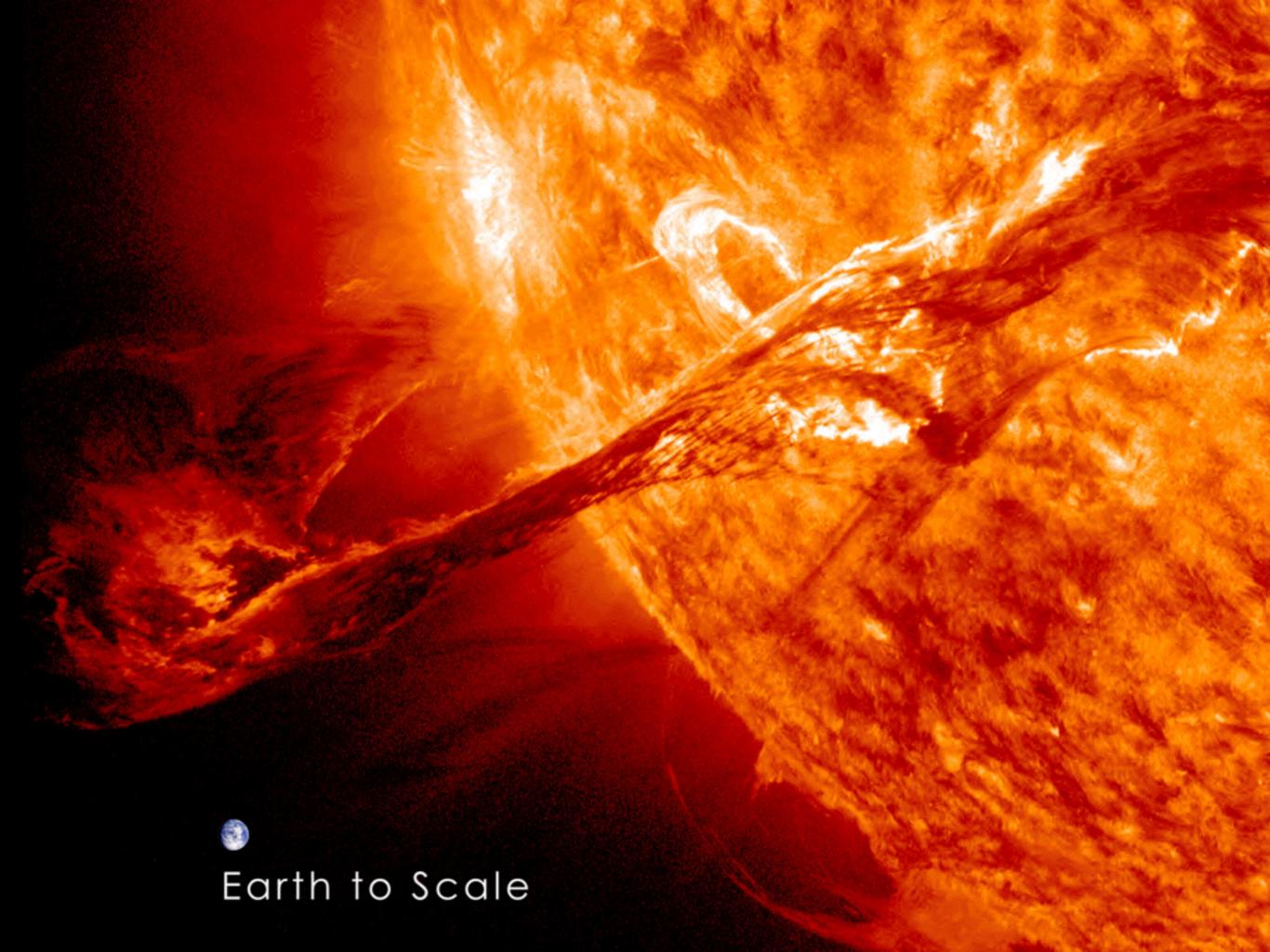
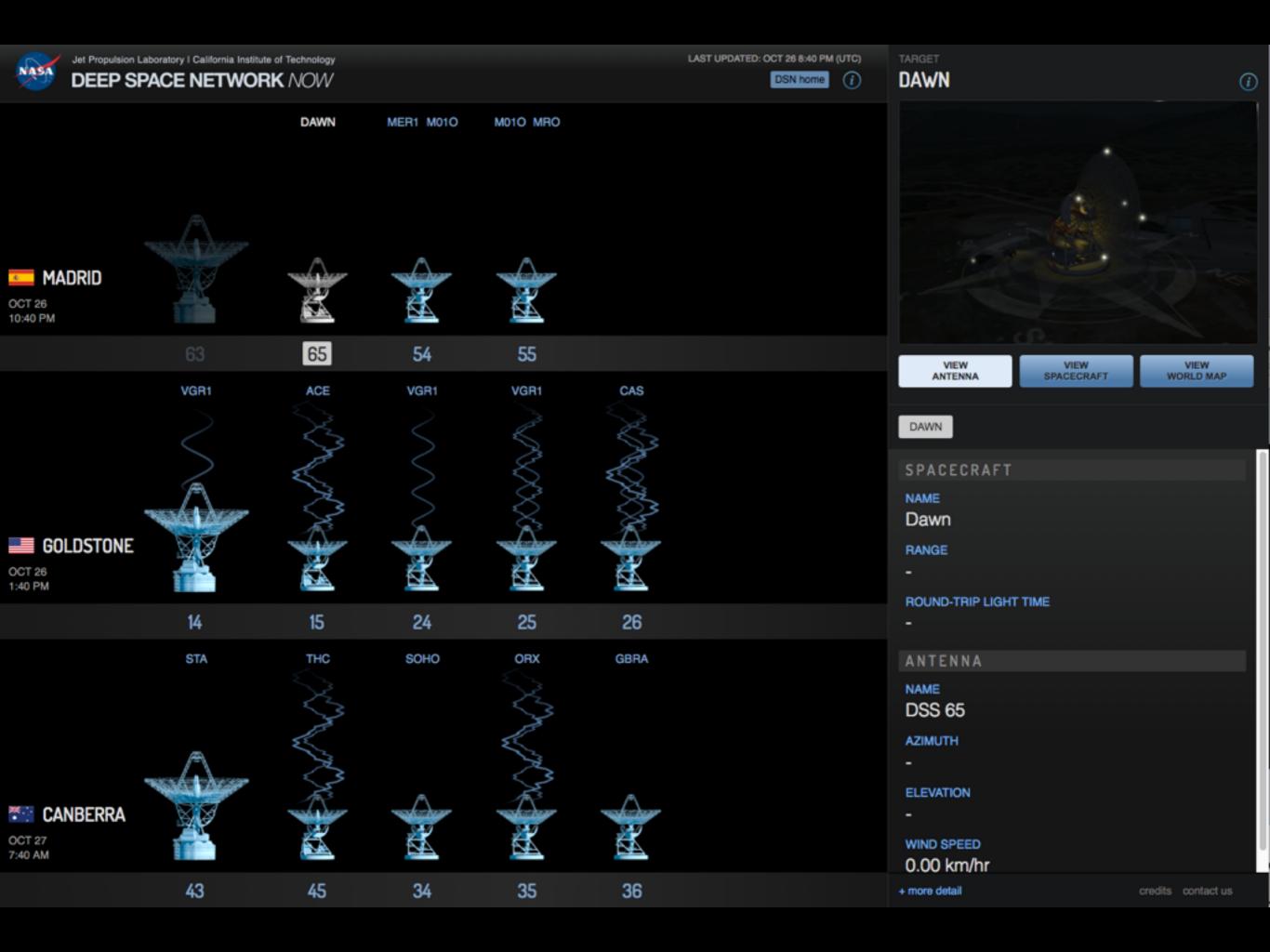


Learning Science & Building Community around Citizen Science Collaboration







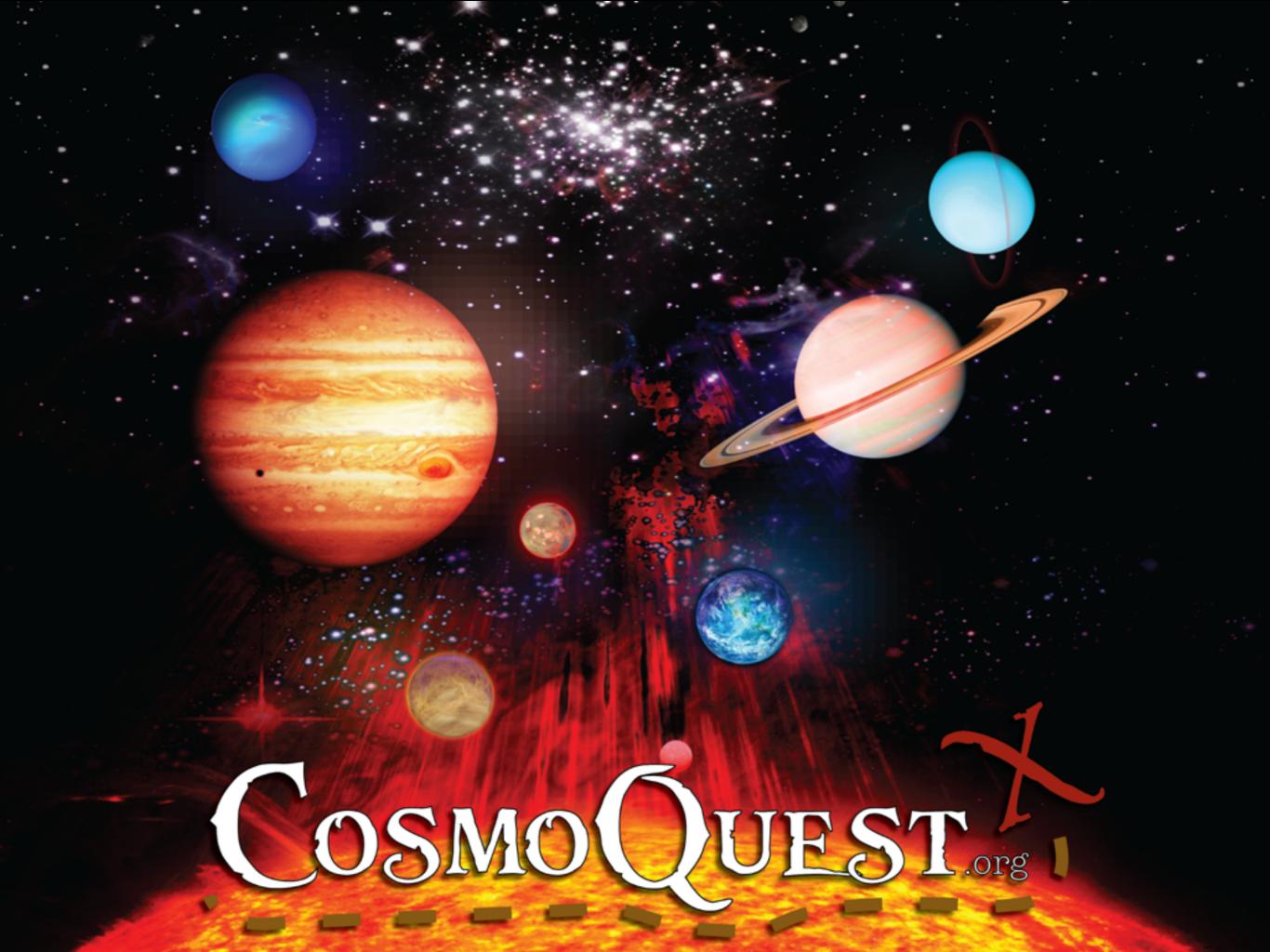












Community Building



Guerilla Science



Citizen Science



365 Days of Astronomy

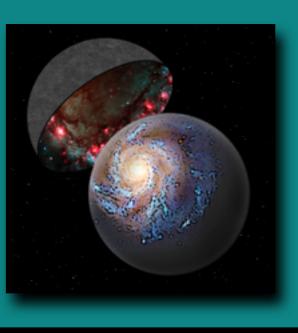


CosmoQuest

S-ROSES & IDEASS Repo



Projected Science



Cosmo Academy

Educators' Zone







Where would you like to explore today?

audience:

ages 10 & up

products:

CitizenScienceBuilder
TransientTracker
data products & simulations

activities:

citizen science portals (e.g. *Moon Mappers*) small research grants program for citizen science

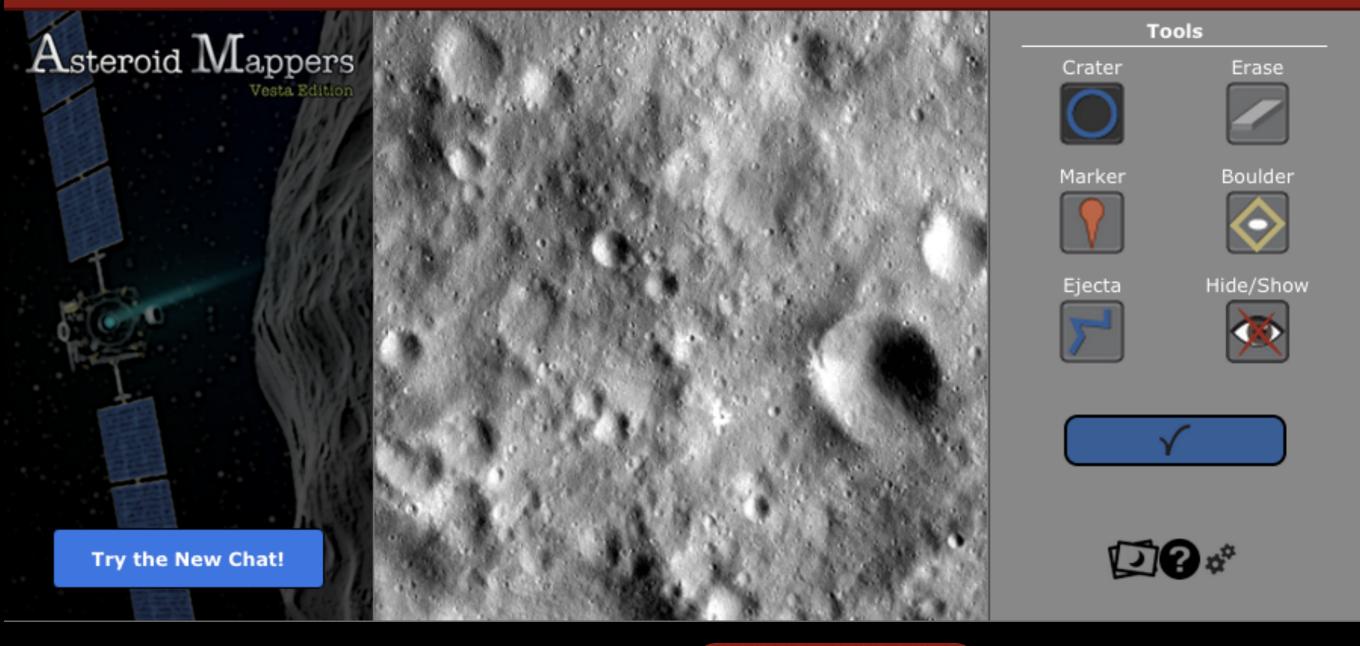
evaluation:

via peer review of science results, Interface Guru

funding:

NASA CAN, NASA CADET, OSIRIS-REx Contract

Robbins et al. proved your results on aggregate are comparable to the results of pros!



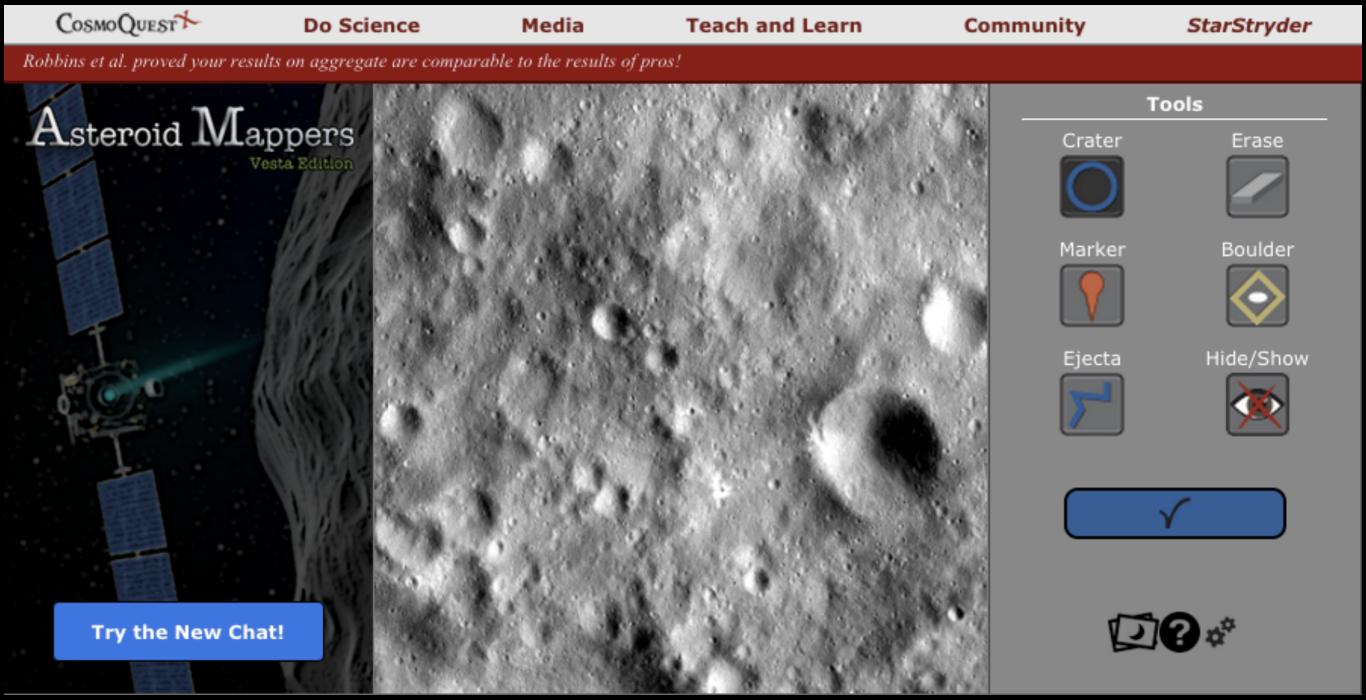
Tutorial



Comparison Images, Feedback

Published

Research



Peer-reviewed research produced by:

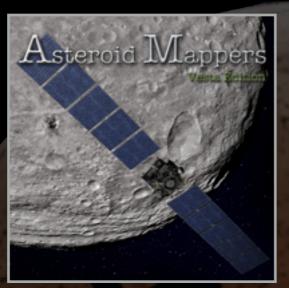
- MoonMappers demonstrated accurate crater mapping
- Ice Investigators Aided discovery of KBOs for NH

Discovered problem: Researchers can mentor in spare time, but require funding for the efforts needed to publish!

Complete

Need Curricula (to complete in 2016)









Pre-Selected

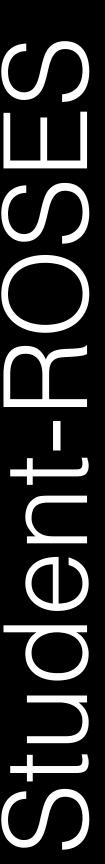
- Planet Builder (Q4 2016)
- Earth Mappers: Image Detective (Q3 2016)
- Dark Energy Explorer (Q1 2017)
- Asteroid Mappers: Bennu (2020)

Timeline

- Jun, RFP announced
- Sep, proposals due
- Jan, announce new programs

Grants







Exploring from the Earth to Beyond the Solar System

audience:

middle & high school

products:

Science Fair Research Guide IDEASS repository Mentors' Bureau

activities:

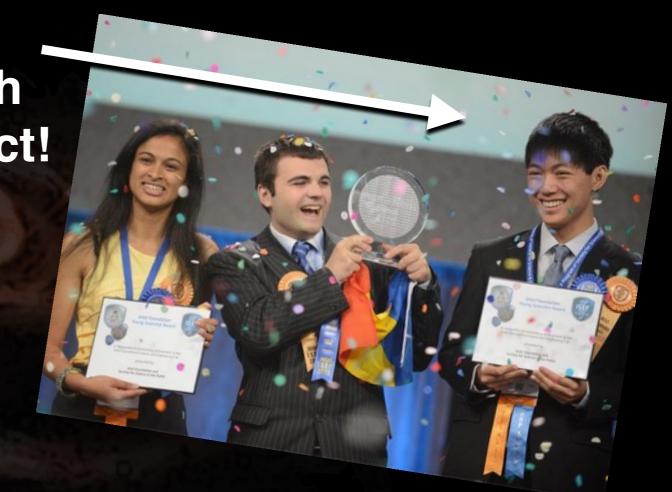
regional science fair training subject matter expert training

evaluation:

participation numbers, duration of engagement, surveys



funding: NASA CAN Henry Lin won \$50k in 2013 with an Astrophysics project!



Pre-Selected

- Southern Illinois (2016)
- Northern Arizona (2016)

Timeline

- Mar, call for applications
- Jun, applications due
- Aug, announce selections







Learning thru Guided Inquiry & Authentic Investigations

audience:

formal & informal educators

products:

classroom curricula paired with citizen science explanatory videos of activities

activities:

master teacher summer institute regional teacher professional development ongoing online PD / community building

evaluation:

external evaluators (McREL), internal research

NASA CAN, Patreon





DiggingInto**Comets**



Expert led Short Courses with Big Content & Small Class Sizes

audience:

life-long learners

products:

NA

activities:

SME Training
Online classes by SMEs

evaluation:

external evaluators (McREL), internal research



$C_{osmo}A_{cademy}$

ABOUT

MY ACCOUNT

LOG OUT

Open for Enrollment

What would you like to learn today?

CQX114: The inner planets (& Titan)

In this class, we'll compare and contrast the interiors, geology, atmospheres, and magnetic fields of the inner planets, and the honorary moon Titan.

Planetary Science

VIEW COURSE

CQX017: The Dark Side of the Universe

New Meeting Time! In this class, we'll talk about the evidence for dark matter, our best theories about the nature of the "dark side," and efforts to discover more about dark matter and dark energy.

Cosmology

VIEW COURSE



This class introduces Newtonian gravity, the description of the force of attraction between two masses, that describes orbits from satellites to stars.

Techniques

VIEW COURSE

CQX111: Asteroids: Observations, Meteorites, & Missions

We'll cover optical, infrared, and radar techniques for characterizing asteroids, both near-Earth and in the main asteroid belt, and also learn about meteorites.

Planetary Science

VIEW COURSE

What do you have to teach?

X

Transforming visual data into science literacy thru Science on the Sphere, Dome, & Screen

audience:

all audiences

products:

image / video repository sphere / dome shows

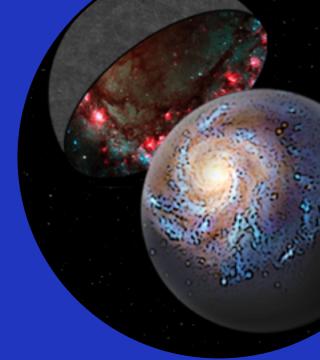
activities:

acquiring new images rendering data products for dome/sphere creating new shows

evaluation:

usage numbers, internal research

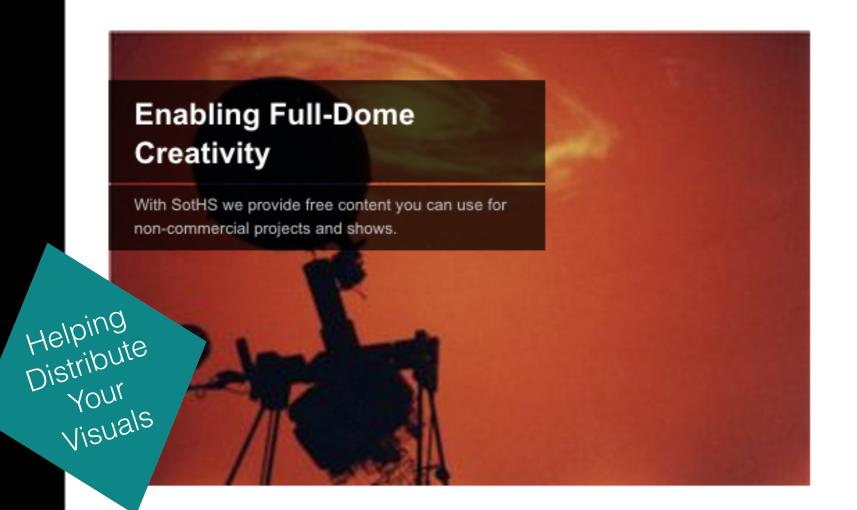
funding: NASA CAN, HST EPO





Art - Science - Wonder Blog

Cosmic Castaways Show



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Google" Custom Search

Search

Enabling Non-Profit Content Creation

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Find out about our upcoming shows and more.





LATEST



Featured Content





DECEMBER 1, 2014

Mauna Kea - Fulldome (fisheye) images

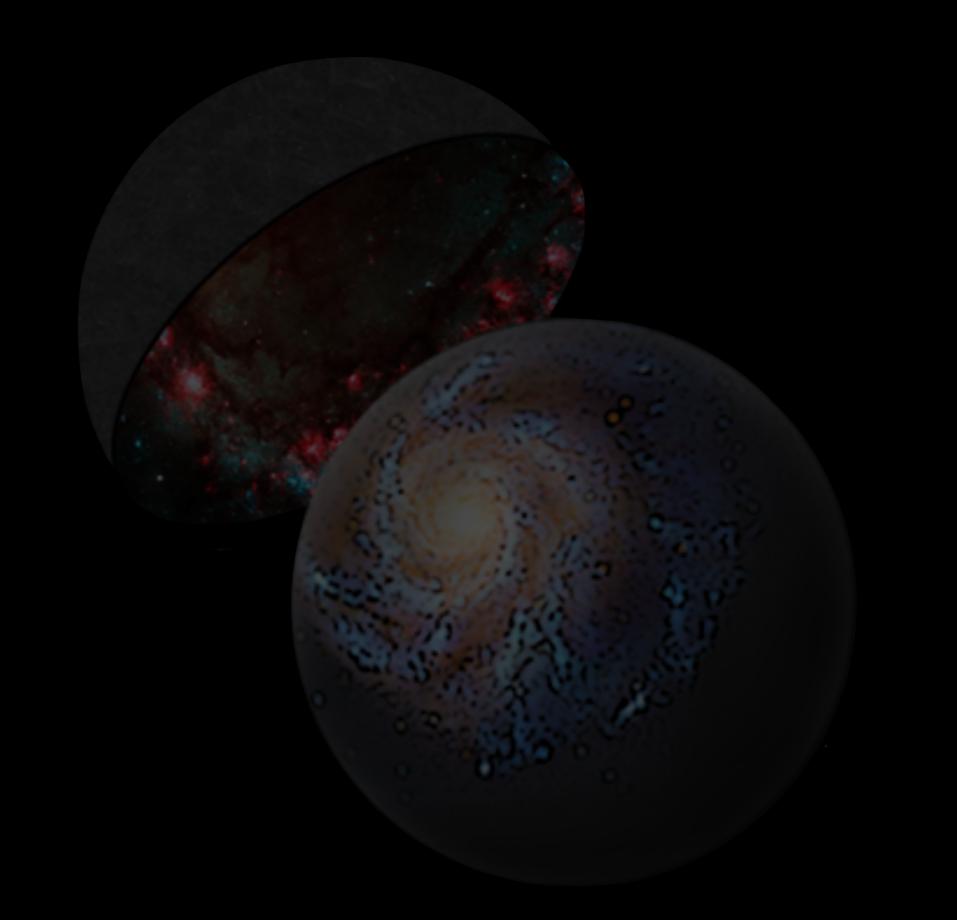
Mauna Kea - Fulldome

(fisheye) timelapse video

DECEMBER 1, 2014



Planetarium Shows DECEMBER 1, 2014



X

Raising up the voices of Scientists & Science Lovers

audience:

all ages

products:

daily podcast YouTube videos

activities:

recruiting & training new podcasters hosting special events

evaluation:

submission of show to peer awards

funding: donations



Partner Programs



















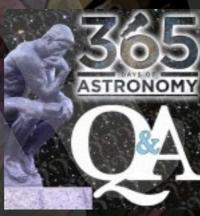




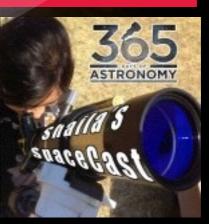


















Getting Your Voice Heard!

X

Better science thru communication, collaboration, community

audience:

all ages*

products:

infographics memes webcomics

activities:

blogs, forums, social media

evaluation:

Google analytics, community surveys (led by Gay)

* different platforms target different age groups

funding:

draws from all programs and volunteer efforts







Taking science to the masses & highlighting science everywhere

audience:

all ages

products:

NA

activities:

stage shows, talks booths on-the-roam science

evaluation:

surveys, online tracking

donations, event funded



Partner Events







Bringing science to science adjacent events

- Makers Faires
- Science Fiction / Fantasy Cons
- Science Film / Art Festivals
- Tech and Media Events like SXSW

What can we distribute for you?

Partner Institutions

- The STEM Center @SIUE, lead
- Astronomical Society of the Pacific
- InsightSTEM
- Interface Guru
- Lawrence Hall of Science @UC-Berkeley
- McREL International
- Planetary Science Institute
- McDonald Observatory @UT-Austin
- Ward-Beecher Planetarium @YSU

Mission & Facility Partners

- CADC
- Dawn
- Hobby-Eberly Telescope
- Lunar Reconnaissance Orbiter
- New Horizons
- MESSENGER
- OSIRIS-REX
- Vatican Observatory
- WFIRST

Community Partners

- Astronomers without Borders
- Astrosphere New Media Association
- Galileo Teacher Training Program
- International Sci. & Eng. Festival
- NASA Night Sky Network
- NASA Solar System Ambassadors
- St Louis Science Center
- S. Arizona Research, Sci. & Eng. Festival
- Universe Today
- Vatican Observatory



Advisors

- Jessie Antonellis, diversity consultant
- Matt Benjamin, U-Colorado
- Edna DeVore, SETI Institute
- Daniel Durda, SWRI
- Llewellyn Falco, software consultant
- Brenda Frye, U-Arizona (education)
- Maurice Henderson, Goddard
- Michelle Higgins, diversity consultant
- Gillian Krezoski, Palomar Observatory
- Peter Lake, iTelescope
- Robert Martin, Clean Coder
- Terry Menz, educator
- Chris Miller, software consultant
- Susan Reynolds Buttons, planetarium consultant
- Mike Simonsen, AAVSO
- Alessondra Springmann, U-Arizona (planetary)
- Brian Warner, minor planet consultant
- Ryan Wyatt, California Academy
- Padma Yanamandra-Fisher, STScI

Evaluators

- InterfaceGuru
- NASA evaluation team
- McREL International